

# INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/AU2004/000788**

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>												
Int. Cl. <sup>7</sup> : A61K 38/39; A61P 19/02												
According to International Patent Classification (IPC) or to both national classification and IPC												
<b>B. FIELDS SEARCHED</b>												
Minimum documentation searched (classification system followed by classification symbols) <b>DWPI, MEDLINE</b>												
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched												
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) <b>DWPI, MEDLINE: collagen, cartilage, connective tissue, NC4, arthritis, inflammation, autolysis, digestion, glycosaminoglycan, GAG</b>												
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
X	US 5925736 A (Neff et al., 20 July 1999). See the whole document, particularly the abstract, column 2 lines 1-58, column 4 lines 45-53, column 7 lines 17-67, Table I, column 9 line 32 – column 10 line 34, and claims 1-9.	1-18, 21-28										
X	WO 2001/093833 A2 (The Procter & Gamble Company, 13 December 2001) See the whole document, particularly the abstract, summary of the invention, page 6 under the heading "Cartilage", and claims 1-2.	1-11, 16-18, 21-27										
X	WO 2001/093831 A2 (The Procter & Gamble Company, 13 December 2001) See the whole document, particularly the abstract, summary of the invention, pages 8-9 under the heading "Cartilage", and claims 1-3.	1-11, 16-18, 21-27										
P, A	WO 2003/062279 A1 (Chondrotec Pty Limited, 31 July 2003) The whole document.	1-28										
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention											
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone											
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art											
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search <b>31 August 2004</b>		Date of mailing of the international search report <b>08 SEP 2004</b>										
Name and mailing address of the ISA/AU <b>AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929</b>		Authorized officer  <b>JASON MACKENZIE</b> Telephone No : (02) 6283 7934										

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International application No.

PCT/AU2004/000788

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Myers LK, Pihlajamaa T, Brand DD, Cremer MA, Bodo M, Ala-Kokko L, Kang AH. Immunogenicity of recombinant type IX collagen in murine collagen-induced arthritis. Arthritis Rheum. 2002 Apr;46(4):1086-93. The whole document	1-18, 21-28
X	Vasios G, Nishimura I, Konomi H, van der Rest M, Ninomiya Y, Olsen BR. Cartilage type IX collagen-proteoglycan contains a large amino-terminal globular domain encoded by multiple exons. J Biol Chem. 1988 Feb 15;263(5):2324-9. The whole document.	1-18, 21-28
X	Lu S, Holmdahl R. Different therapeutic and bystander effects by intranasal administration of homologous type II and type IX collagens on the collagen-induced arthritis and pristane-induced arthritis in rats. Clin Immunol. 1999 Jan;90(1):119-27.	1-11, 21-26

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/000788

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	5925736	AU	46570/96	BR	9606753	CA	2210088
		EP	0805686	FI	972929	HU	9800829
		NO	973193	WO	9621458		
WO	0193833	AU	66648/01	AU	69730/01	BR	0111292
		BR	0111378	CA	2408610	CA	2408611
		EP	1289531	EP	1289532	US	2002132780
		WO	0193831				
WO	0362279						
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							